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Yamanishi

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(54) **DISCHARGE GAP DEVICE AND ITS MOUNTING STRUCTURE**

(75) Inventor: **Yoshihiro Yamanishi**, Osaka (JP)

(73) Assignee: **Funai Electric Co., Ltd.**, Osaka (JP)

(*) Notice: This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).

Under 35 U.S.C. 154(b), the term of this patent shall be extended for 0 days.

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(51) **Int. Cl.⁷** **H02H 1/00**

(52) **U.S. Cl.** **361/117; 361/138; 337/18; 337/28**

(58) **Field of Search** 361/91.2, 110, 361/111, 117, 118, 119, 136, 748; 337/15-20, 28

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Primary Examiner—Josie Ballato

Assistant Examiner—Kim Huynh

(74) *Attorney, Agent, or Firm*—Lackenbach Siegel Marzullo Aronson & Greenspan

(57) **ABSTRACT**

A discharge gap device which is provided between an antenna input terminal or a secondary side earth and a commercial power source, or between the power lines of a commercial power source as a ground discharge counter-measure for electrical equipments such as a television set, a video cassette recorder, and a television and video compound device. The discharge gap device functions only as a discharge gap unit and has two conductors. Normally, the conductors are not electrically connected to each other, and upon application of over-voltage, discharge occurs between the conductors; that is, the conductors are electrically connected to each other.

11 Claims, 6 Drawing Sheets

